	Application No.	Applicant(s)
Notice of Allowability		
	10/754,877 Examiner	HAN, KENNETH N. Art Unit
·		Artomit
	Kathleen A. McNelis	1742
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS therewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIPORT OF THE OFFICE	(OR REMAINS) CLOSED in this apported or other appropriate communication GHTS. This application is subject to	plication. If not included will be mailed in due course. THIS
1. This communication is responsive to After Final Amendment	nt 12 December 2005.	
2. The allowed claim(s) is/are <u>2-6,8-17,19-33,35-39 and 41-50</u>	<u>)</u> .	•
3. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the:	der 35 U.S.C. § 119(a)-(d) or (f).	
 Certified copies of the priority documents have 		
2. Certified copies of the priority documents have		
Copies of the certified copies of the priority doc	suments have been received in this r	national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONMI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a reply of ENT of this application.	complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give	tted. Note the attached EXAMINER' s reason(s) why the oath or declarat	S AMENDMENT or NOTICE OF tion is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") must	be submitted.	
(a) \square including changes required by the Notice of Draftsperso		948) attached
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment or in the O	ffice action of
Identifying indicia such as the application number (see 37 CFR 1.1 each sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on the drawin e header according to 37 CFR 1.121(c	gs in the front (not the back) of l).
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
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Adda a harra and (a.)		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. Notice of Informal Page	atent Application (PTO-152)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	(PTO-413),
3. Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date	Paper No./Mail Date 3), 7. ⊠ Examiner's Amendm	nent/Comment
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. X Examiner's Stateme	nt of Reasons for Allowance
V .	9. Other	

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Claims Status

Claims 1, 7, 18, 34, and 40 were canceled. Claims 2-6, 8-17, 19-33, 35-39, and 41-50 remain for examination wherein claims 2-6, 8, 9, 11-17, 19-25, 27-33, 35-39, 41-42, and 44-50 are amended.

Status of Previous Rejections

Claim Rejections - 35 USC § 112

The previous rejection of claims 1-50 under 35 USC § 112 is withdrawn in view of applicants' amendment of claims.

Claim Rejections - 35 USC § 103

The previous rejection of claims 1-8, 11-24, 27-41 and 44-50 under 35 USC § 103(a) are withdrawn in view of applicants' amendment of claims.

Double Patenting

The previous rejection of claims 1-8, 11-24, 27-41 and 44-50 are withdrawn due to applicants' amendment of claims.

Allowable Subject Matter

Claims 2-6, 8-17, 19-33, 35-39 and 41-50 are allowed.

Examiners Amendment

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

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Claim 42, delete "the" from last line as follows: "...c) separating-the at least one precious metal from the slurry."

Reasons for Allowance

The following is an examiner's statement of reasons for allowance:

- Vinals Olia et al. (U.S. 2003/0129112) discloses a process for selective metal leaching of metals from a source material wherein the source material is contacted with an oxidant and a halogen salt in an aqueous solution. Wherein the oxidant is oxygen, ozone and a third reagent;
- Han et al. (U.S. Pat. No. 5,308,381) discloses a method for extraction of gold and silver by leaching in a solution containing ammonia, ammonium salts and one or more oxidants;
- Young et al. (U.S. Pat. No. 6,471,743) discloses a method for leaching ores to recover gold, wherein an alkali metal halide is used as leach solution and heating is within a range of 80 to 120 °C;
- Han et al. (U.S. Pat. No. 5,308,381) discloses a method for ammonia extraction of gold using ammonium iodide salt;
- Han et al. (U.S. Pat No. 5,114,687) discloses a method for extraction of gold and silver with ammonia, ammonium salts and one or more oxidants, where oxidants are a combination of oxygen and cupric ions;
- Han et al. (U.S. Pat. No. 5,328,669) discloses a method for extraction of precious metals using halogen salts with elemental iodine as oxidizer; and
- Han et al. (U.S. Pat. NO. 5,542,957) discloses a method for recovery of PGM using halogen reagents by leaching in a solution containing an ammonium halogen salt in the presence of oxygen and sulfuric acid;

However, these citations do not disclose or suggest

a method to recover a precious metal from a source material comprising the steps of
contacting the source material comprising at least one precious metal with a solution
comprising an ammonium salt, a halogen salt and an oxidant wherein the oxidant is
gaseous and is provided to the solution by the introduction of at least a first liquid and a

second liquid reagent and recovering at least one precious metal from the solution as in instant claim 9, or

- a method to separate a precious metal from a source material comprising the steps of
 contacting the source material comprising at least one precious metal with a solution
 comprising an ammonium salt, a halogen salt and an oxidant wherein the oxidant is
 gaseous and is provided to the solution by the introduction of at least a first liquid and a
 second liquid reagent and separating at least one precious metal from the solution as in
 instant claim 25, or
- a method to extract a precious metal from a source material comprising the steps of charging to a reaction zone a solution comprising at least one ammonium salt, at least one halogen salt at least one acid, water and a source material containing at least one precious metal, heating the reaction zone to a temperature of approximately 50 to 100 °C under oxidizing conditions to form a slurry wherein the oxidizing conditions are provided by a gaseous oxidant that is provided to the solution by introduction of at least a first liquid reagent and at least a second liquid reagent and separating at least one precious metal from the slurry as in instant claim 42.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kathleen A. McNelis whose telephone number is 571-272-3554. The examiner can normally be reached on M-F 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on 571-272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ROY KING

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